METHODS AND APPARATUS FOR OBJECT RECOGNITION AND

COMPRESSION

Abstract of the Disclosure

5   Apparatus and methods are provided for object recognition and compression. The apparatus (114) comprises an object processor (402) configured to receive the image (120) and synthesize a contour (404) of an object within the image (120) and a classification engine (406)

10 configured to receive the contour (404) of the image (120) and recognize the object within the image as a member of a first object class if the object substantially meets first object criteria of the first object class that is at least partially related to the target-specific utility of the

15 image. The apparatus (114) also comprises a multi-rate encoder (116) configured to compress a first region of the image (120) having said object recognized as said member of said first object class at a first coding rate, said first coding rate providing a first coding resolution of said

20 first region that is greater than a second coding resolution provided by a second coding rate for the image.